Chohong Min

List of Publications by Year
in descending order

21 papers	593 citations	933447 10 h-index	713466 21 g-index
21 all docs	21 docs citations	21 times ranked	416 citing authors

#	Article	IF	Citations
1	An efficient fluid–solid coupling algorithm for single-phase flows. Journal of Computational Physics, 2009, 228, 8807-8829.	3.8	119
2	Geometric integration over irregular domains with application to level-set methods. Journal of Computational Physics, 2007, 226, 1432-1443.	3.8	95
3	A second order accurate projection method for the incompressible Navier–Stokes equations on non-graded adaptive grids. Journal of Computational Physics, 2006, 219, 912-929.	3.8	82
4	Second-Order Accurate Computation of Curvatures in a Level Set Framework Using Novel High-Order Reinitialization Schemes. Journal of Scientific Computing, 2008, 35, 114-131.	2.3	60
5	A Supra-Convergent Finite Difference Scheme for the Poisson and Heat Equations on Irregular Domains and Non-Graded Adaptive Cartesian Grids. Journal of Scientific Computing, 2007, 31, 19-60.	2.3	55
6	Efficient symmetric positive definite second-order accurate monolithic solver for fluid/solid interactions. Journal of Computational Physics, 2012, 231, 3246-3263.	3.8	52
7	High Resolution Sharp Computational Methods for Elliptic and Parabolic Problems in Complex Geometries. Journal of Scientific Computing, 2013, 54, 369-413.	2.3	34
8	Guidelines for Poisson Solvers on Irregular Domains with Dirichlet Boundary Conditions Using the Ghost Fluid Method. Journal of Scientific Computing, 2009, 41, 300-320.	2.3	29
9	Analyses on the finite difference method by Gibou et al. for Poisson equation. Journal of Computational Physics, 2015, 280, 184-194.	3.8	16
10	Convergence Analysis of the Standard Central Finite Difference Method for Poisson Equation. Journal of Scientific Computing, 2016, 67, 602-617.	2.3	11
11	On Solving the Singular System Arisen from Poisson Equation with Neumann Boundary Condition. Journal of Scientific Computing, 2016, 69, 391-405.	2.3	9
12	On the performance of a simple parallel implementation of the ILU-PCG for the Poisson equation on irregular domains. Journal of Computational Physics, 2012, 231, 4531-4536.	3.8	8
13	An energy-stable method for solving the incompressible Navier–Stokes equations with non-slip boundary condition. Journal of Computational Physics, 2018, 360, 104-119.	3.8	4
14	Convergence Analysis in the Maximum Norm of the Numerical Gradient of the Shortley–Weller Method. Journal of Scientific Computing, 2018, 74, 631-639.	2.3	4
15	An Experiment of the Malkus–Lorenz Waterwheel and Its Measurement by Image Processing. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750006.	1.7	3
16	Comparison of eigenvalue ratios in artificial boundary perturbation and Jacobi preconditioning for solving Poisson equation. Journal of Computational Physics, 2017, 349, 1-10.	3.8	3
17	Optimal preconditioners on solving the Poisson equation with Neumann boundary conditions. Journal of Computational Physics, 2021, 433, 110189.	3.8	3
18	An efficient MILU preconditioning for solving the 2D Poisson equation with Neumann boundary condition. Journal of Computational Physics, 2018, 356, 115-126.	3.8	2

#	Article	IF	Citations
19	Convergence analysis on the Gibou–Min method for the Hodge projection. Communications in Mathematical Sciences, 2017, 15, 1211-1220.	1.0	2
20	A semi-implicit and unconditionally stable approximation of the surface tension in two-phase fluids. Journal of Computational Physics, 2019, 397, 108829.	3.8	1
21	A Simple Proof of Gustafsson's Conjecture in Case of Poisson Equation on Rectangular Domains. American Journal of Computational Mathematics, 2015, 05, 75-79.	0.5	1